

U.S.S.N. 09/960,691

CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) An apparatus for directing a radio frequency (RF) transmit (Tx) signal within a specific Tx band to a separate path comprising:
a switch;
a first bandpass filter having a first passband within the specific Tx band coupled to the switch to receive a switched Tx signal and produce a first filtered Tx signal; and
a second bandpass filter having a second passband within the specific Tx band coupled to the switch to receive the switched Tx signal and produce a second filtered Tx signal;
wherein the switch connects to one of the first and second filters based upon a channel assignment of the Tx signal within the specific Tx band.
2. (Original) An apparatus of claim 1 wherein the first filter has a first passband within the Tx band and provides higher insertion loss outside of the first passband than inside of the first passband.
3. (Original) An apparatus of claim 1 wherein the second filter has a second passband different from the first passband within the Tx band and provides higher insertion loss outside of the second passband than inside of the second passband.
4. (Original) An apparatus of claim 1 wherein the first passband and the second passband, both being within the Tx band, have no common frequency range.
5. (Original) An apparatus of claim 1 wherein the first passband and the second passband, both being within the Tx band, overlap.

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6. (Original) An apparatus of claim 1 further comprising a modulator coupled to the switch, producing the Tx signal having a Tx signal frequency substantially equal to a desired RF Tx frequency.
7. (Original) An apparatus of claim 1 further comprising a second switch coupled to the first and the second filters wherein the second switch is connected to one of the first and the second filters based upon the channel assignment within the specific Tx band, and produce a second switched Tx signal.
8. (Original) An apparatus of claim 1 further comprising a power amplifier (PA) coupled to the second switch to receive the second switched Tx signal and produce an amplified Tx signal for transmission at a PA output.
9. (Original) An apparatus for generating a radio frequency (RF) transmit (Tx) signal having reduced noise by directing a RF Tx signal within a specific Tx band to a separate path comprising:
 - a modulator producing the Tx signal having a Tx signal frequency substantially equal to a desired RF Tx frequency;
 - a first switch coupled to the modulator to receive the Tx signal;
 - a first filter coupled to the first switch to receive a first switched Tx signal and produce a first filtered Tx signal, having a first passband within the Tx band and provides higher insertion loss outside of the first passband than inside of the first passband;
 - a second filter coupled to the first switch to receive the first switched Tx signal and produce a second filtered Tx signal, having a second passband different from the first passband within the Tx band and provides higher insertion loss outside of the second passband than inside of the second passband;
 - a second switch coupled to the first and second filters to receive the first and the second filtered Tx signal, respectively, producing a second switched Tx signal; and

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a power amplifier (PA) coupled to the second switch to receive the second switched Tx signal to produce an amplified Tx signal for transmission at a PA output;

wherein the first and the second switches connect to one of the first and the second filters based upon a channel assignment of the Tx signal within the specific Tx band.

10. (Original) A method for generating a radio frequency (RF) transmit (Tx) signal having reduced noise by directing a RF Tx signal within a specific Tx band to a separate path comprising steps of:
determining an appropriate path, which is one of a plurality of paths each having a bandpass filter, for the Tx signal based upon a channel assignment of the Tx signal;
establishing the appropriate path for the Tx signal; and
sending the Tx signal through the appropriate path.
11. (Original) A method of claim 10 wherein the bandpass filter of each of the plurality of paths has a passband within the Tx band and is different from passbands of other bandpass filters.
12. (Original) A method of claim 10 wherein the appropriate path has the bandpass filter having the passband encompassing the channel assigned to the Tx signal.